GILA RIVER BASIN

09498400 PINAL CREEK AT INSPIRATION DAM, NEAR GLOBE, AZ

LOCATION.--Lat 33° 34'23", long 110° 54'02", in NE1/4NW1/4SE1/4 sec. 26, T.3 N., R.14 E., Gila County, Hydrologic Unit 15060103, in Tonto National Forest, on right bank 7 ft upstream from Inspiration Dam, 3.8 mi upstream from mouth, and 14 mi northwest of Globe.

DRAINAGE AREA.--195 mi^2, of which about 33 mi^2 is partly or entirely noncontributing due to mining operations (1988).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,740 ft above sea level, from topographic map. Prior to Feb. 12, 1991, at datum 1.0 ft higher.

REMARKS.--No estimated daily discharge. Records fair. Since Nov. 20, 1999, base flows may be affected by discharges from a ground-water treatment plant, located about 5 mi upstream from the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,700 ft^3/s Jan. 11, 1993, gage height, 8.50 ft, on basis of slope-area measurement of peak flow; minimum daily, 0.64 ft^3/s July 1, 1999.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 6.....	2125	849	3.38
Sept. 10.....	1500	*2,520	*5.12

Minimum daily discharge, 1.4 ft^3/s Aug. 15, Sept. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	7.4	6.9	6.7	6.2	5.5	4.9	4.0	2.8	1.7	1.7	1.5
2	5.1	7.1	6.7	6.7	6.1	5.5	4.9	4.1	2.7	1.7	1.7	1.4
3	5.0	7.3	6.7	6.6	6.2	5.6	4.8	4.1	2.7	1.7	2.1	1.5
4	4.9	7.4	7.2	6.6	6.1	5.6	4.9	4.0	2.5	1.9	2.2	1.7
5	4.9	7.5	6.6	6.5	6.0	5.6	4.9	4.0	2.3	1.6	2.0	1.8
6	66	7.5	6.6	6.5	5.9	5.6	4.9	3.9	2.3	1.8	2.0	1.8
7	16	7.7	6.8	6.3	6.0	5.6	5.0	3.9	2.5	1.9	2.0	2.0
8	6.8	7.6	6.9	6.0	6.5	5.8	4.9	3.5	2.5	1.8	1.9	2.3
9	6.6	7.2	6.8	6.4	6.0	5.5	5.0	4.0	2.4	1.9	1.8	2.3
10	6.7	6.5	6.7	6.6	5.6	5.4	4.8	3.7	2.3	2.1	1.7	202
11	6.2	6.3	6.8	6.9	5.6	5.4	4.7	4.1	2.3	2.3	1.6	7.8
12	6.3	6.3	6.7	6.8	5.6	5.6	4.5	3.8	2.3	1.8	1.7	4.6
13	6.3	6.7	6.9	6.8	5.3	5.2	4.5	4.0	2.5	1.7	1.9	4.3
14	6.5	6.6	6.9	6.7	5.7	5.4	4.6	4.0	2.3	1.6	1.7	3.9
15	6.4	6.4	7.2	6.7	6.0	5.4	4.7	4.0	2.3	1.9	1.4	3.6
16	6.3	6.2	7.2	6.8	6.0	5.4	4.9	3.7	2.0	1.9	1.8	3.5
17	6.9	6.3	7.0	6.9	5.6	5.4	4.5	3.7	1.8	2.0	1.9	4.0
18	6.9	6.4	7.1	7.1	5.6	5.4	4.6	3.9	1.9	1.9	1.8	3.8
19	6.9	6.6	6.8	6.8	5.5	5.3	4.3	3.7	2.1	1.7	1.7	3.8
20	6.8	6.9	6.8	6.5	5.5	5.3	4.6	3.6	2.2	1.8	1.7	3.5
21	6.9	6.8	6.7	6.5	5.5	5.3	4.8	3.5	1.9	1.7	1.8	3.0
22	7.0	6.5	6.8	6.5	5.5	5.3	4.6	3.5	2.8	1.7	1.7	3.1
23	7.1	6.4	6.5	6.4	5.7	5.3	4.9	3.6	2.0	1.7	1.7	3.0
24	7.1	6.2	7.1	5.9	5.8	5.4	4.5	3.3	1.8	1.7	1.7	3.2
25	7.0	6.6	7.2	6.3	5.5	5.2	4.4	3.2	1.8	1.8	1.7	3.1
26	7.3	6.5	7.1	6.5	5.3	5.3	4.2	3.7	1.8	1.9	2.4	2.7
27	7.2	6.5	6.9	6.5	5.2	5.0	4.2	3.8	1.7	1.8	1.5	3.1
28	6.6	6.5	7.1	6.5	5.5	4.9	4.3	3.0	1.6	1.8	1.8	3.1
29	7.1	6.6	7.3	6.4	---	5.0	4.2	3.2	1.8	1.7	2.2	3.0
30	6.4	6.7	7.3	6.6	---	5.0	4.1	3.0	1.8	1.8	1.7	3.2
31	6.3	---	7.3	6.4	---	5.0	---	3.1	---	1.7	1.6	---
TOTAL	268.5	203.2	214.6	203.4	161.0	166.2	139.1	114.6	65.7	56.0	56.1	291.6
MEAN	8.661	6.773	6.923	6.561	5.750	5.361	4.637	3.697	2.190	1.806	1.810	9.720
MAX	66	7.7	7.3	7.1	6.5	5.8	5.0	4.1	2.8	2.3	2.4	202
MIN	4.9	6.2	6.5	5.9	5.2	4.9	4.1	3.0	1.6	1.6	1.4	1.4
AC-FT	533	403	426	403	319	330	276	227	130	111	111	578
CFSM	0.04	0.03	0.04	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.05
IN.	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.02	0.01	0.01	0.01	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2002, BY WATER YEAR (WY)

MEAN	9.636	7.807	10.87	30.44	28.58	15.68	9.787	8.036	6.306	7.769	8.546	7.484
MAX	38.8	13.0	58.4	440	406	67.3	30.1	19.6	16.2	17.1	28.4	16.4
(WY)	1984	2001	1985	1993	1993	1993	1993	1993	1993	1981	1990	1983
MIN	2.56	3.72	3.37	3.20	3.44	3.55	3.46	2.38	1.07	1.81	1.81	2.81
(WY)	2000	1999	1999	1999	1999	1999	1999	1999	1999	2002	2002	1989

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1980 - 2002	
ANNUAL TOTAL	2188.7		1940.0			
ANNUAL MEAN	5.996		5.315		12.47	
HIGHEST ANNUAL MEAN					84.2	1993
LOWEST ANNUAL MEAN					3.76	1999
HIGHEST DAILY MEAN	66	Oct 6	202	Sep 10	3300	Jan 11 1993
LOWEST DAILY MEAN	2.6	Jul 5	1.4	Aug 15	0.64	Jul 1 1999
ANNUAL SEVEN-DAY MINIMUM	3.2	Jun 29	1.6	Aug 30	0.72	Jun 25 1999
ANNUAL RUNOFF (AC-FT)	4340		3850		9030	
ANNUAL RUNOFF (CFSM)	0.031		0.027		0.064	
ANNUAL RUNOFF (INCHES)	0.42		0.37		0.87	
10 PERCENT EXCEEDS	7.7		6.9		12	
50 PERCENT EXCEEDS	6.3		5.0		7.2	
90 PERCENT EXCEEDS	3.9		1.8		3.9	

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Nov. 1979 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC													
20...	1035	6.9	.78	691	10.4	99	7.7	2060	12.0	8.4	1100	1200	363
MAR													
29...	1130	4.9	.51	686	8.5	100	7.6	2140	19.5	17.7	1100	1200	371
JUN													
11...	1250	2.4	.57	686	7.1	97	7.6	2190	33.0	25.4	1200	1200	377
SEP													
06...	1210	2.0	.97	687	7.3	101	7.0	2250	30.5	25.8	1200	1200	389

Date	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
DEC													
20...	368	64.0	64.0	4.50	.7	56.0	48	58	<1	56.0	1.1	1210	<1cl
MAR													
29...	370	60.0	59.0	4.40	.8	61.0	46	56	<1	54.0	1.0	1200	3
JUN													
11...	401	63.0	66.0	4.20	.9	69.0	45	55	<1	55.0	1.0	1250	<1
SEP													
06...	387	63.0	64.0	5.30	.8	65.0	45	55	<1	59.0	1.0	1250	<1

Date	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4) (71845)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)
DEC													
20...	2.43	E1960cl	1780	1.1	.02	.03	<.020	1.1	<.02	8	E7k	E2k	<1
MAR													
29...	2.65	1950	1780	<.20	.01	.01	<.020	--	<.02	<5	E4k	E6k	<1
JUN													
11...	2.38	1750	1850	<.20	.02	.03	<.020	--	<.02	<5	E8k	35	<1
SEP													
06...	2.82	2070	1860	<.20	.01	.01	<.020	--	<.02	<5	100	--	<1

Date	ANTI-MONY, TOTAL (UG/L AS SB) (01097)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, DIS-SOLVED (UG/L AS B) (01020)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)
DEC													
20...	<1	<2	<2	9.4	9.7	<1	<1	53	49	<.5	<.5	<1	<1
MAR													
29...	<1	<1	<1	8.7	9.0	<1	<1	48	50	<.5	<.5	<1	<1
JUN													
11...	<1	<1	<1	11.0	11.0	<1	<1	53	52	<.5	<.5	<1	<1
SEP													
06...	<1	2	2	12.0	13.0	<1	<1	55	60	<.5	<.5	<1	<1

Date	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
DEC													
20...	<2	<2	<2	100	<2	<2	240	314	<.10	<.1	5	4	<2
MAR													
29...	<2	2	2	48	<2	<2	196	243	<.10	<.1	3	4	<1
JUN													
11...	<2	2	<2	25	<2	<2	225	236	<.10	<.1	4	4	<1
SEP													
06...	2	<2	2	15	<2	<2	175	186	<.10	<.1	3	4	<1

Date	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	THAL-LIUM, TOTAL (UG/L AS TL) (01059)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
DEC										
20...	<4	<1	<1	1180	<2	<2	23	10	1.0	.02
MAR										
29...	<1	<1	<1	1130	<2	<2	7	4	1.0	.01
JUN										
11...	<1	<1	<1	1170	<2	<2	7	5	4.0	.03
SEP										
06...	1	<1	<1	1200	<2	<2	17	2	2.0	.01

Remark codes used in this report:
   < -- Less than
   E -- Estimated value
Value qualifier codes used in this report:
   c -- See laboratory comment
   k -- Counts outside acceptable range
   l -- Sample lab preparation problem

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Water-quality measurements in the following table were made as part of the ADEQ Fixed-Station Network Program. The following analyses are quality-assurance samples processed during the 2002 sampling period and are defined in the introductory text section titled "Water-Quality Control Data".

Date	Time	Sample type	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
JUN													
11...	1255	2	5.8	1	30.0	.04	<.03	<.1	.20	.02	<.020	<.02	<3

Date	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JUN										
11...	<.5	<1	<.5	<1	<2	<2	<2	<1	<1	<2

Remark codes used in this report:
< -- Less than